

GOLUBKOV, V.N.

Laboratory determination of the settling of loess. Izv. vys, ushceb. zav., geol. i razv. 4 no.1:94-99 Ja '61. (MIRA 14:7)

1. Odesskiy inzhen rno-stroitel'nyy institut.
(Loess)

BEREZANTSEV, V.G. (Leningrad); GOLUBKOV, V.N.; ZHILINSKIY, K.A., dotsent;
MAKAROCHKIN, M.F., prof.; MEDKOV, Ye.I., prof.; BALUSHEV, B., prof.;
MYSLIVETS, A., professor doktor (Praga, Chekhoslovakia)

"Foundations" by N.A. TSytovich. Reviewed by V. G. Berezantsev and
others. Osn., fund. i mekh. grun. 3 no.1:28-29 '61. (MIRA 14:3)

1. Zaveduyushchiy kafedroy osnovaniy i fundamentov Odesskogo inzhenerno-stroitel'nogo instituta (for Golubkov).
2. Voronezhskiy inzhenerno-stroitel'nyy institut (for Zhilinskiy).
3. Zaveduyushchiy kafedroy Belgrusskogo politekhnicheskogo instituta chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Makarochkin).
4. Zaveduyushchiy kafedroy Moskovskogo instituta inzhenerov zhelezno-dorozhnogo transporta (for Medkov).
5. Ot litsa kafedry osnovaniy i fundamentov Inzhenerno-stroitel'nogo instituta, Sofiya, Bulgaria (for Balushev).
6. Chlen-korrespondent Cheshskoy akademii nauk (for Myslivets).

(Foundations)
(TSytovich, N.A.)

GOLUBKOV, V.P.

Atomic energy for peace purposes. Inform. biul. VDNKH no.84
35-37 Ag '63. (MIRA 17:8)

1. Direktor pavil'ona "Atomnaya energiya v mirnykh tselyakh"
na Vystavke dostizheniy narodnogo khozyaystva SSSR.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4

GOLUBKOV, V.S.

First brachiopod finds in Paleozoic deposits of the Koryak
highland. Sbor.st.po paleont.i biostrat. no.11:21-30 '58.
(MIRA 13:1)
(Khatyrka Valley--Brachiopoda, Fossil)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4"

GOLUBKOV, V.S.

Stratigraphy of Carboniferous deposits in the western outskirts of
the Siberian Platform. Trudy NIIGA 107:60-67 '59 (MIRA 13:3)
(Siberian Platform--Geology, Stratigraphic)

VILENCHIKOV, A.M.; GOLUBKOV, V.S.

Structure and tectonic control of some nickel-bearing
intrusives in the Kureyka Basin. Trudy NIIGA 123:150-165 '61.
(MIRA 14:10)

(Kureyka Valley--Nickel)

GOLUBKOV, V.S.; KNOROZ, V.I., kand.tekhn.nauk; STRYUKOV, I.L.

Effect of angles of obliquity of front wheels on the wear of
tires. Avt.prom. 27 no.8:28-31 Ag '61. (MIRA 14:10)

1. Nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy
institut.
/ (Automobiles--Tires)

DODIN, D.A.; GOLUBKOV, V.S.; ARKHIPOVA, A.I.; ATLASOV, A.I.

Division of the trap formation in the northwestern margin of the
Siberian Platform in medium-scale geological mapping. Inform.
sbor. NIIGA no.30:8-21 '62. (MIRA 17:1)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4

GOLUBKOV, V.S.; ATLASOV, A.I.

Block structure of the Khantayka-Severnaya interfluve. Inform.
sbor. NIIGA no.30:36-41 '62. (MIRA 17:1)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4"

GOLUBEKOV, V.S.; KNOROZ, V.I., kand.tekhn.nauk; STRYUKOV, I.L.

Investigating the stability of the alignment of front wheels
of a motor vehicle. Avt.prom. 28 no.2:9-12 F '62. (MIRA 15:2)

1. Nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy
institut.
(Motor vehicles--Wheels)

SMUSHKOVICH, B.L.; GOLUBKOV, V.S.

Machines for testing friction and wear of materials. Zavlab.
29 no.7:890-893 '63. (MIRA 16:8)

1. Spetsial'noye konstruktorskoye byuro po razrabotke avtomati-
cheskikh sredstv izmereniya mass i priborov ispytatel'noy tekhniki
Ivanovskogo soveta narodnogo khozyaystva.
(Testing machines)

SUKHOV, L.G.; GOLUBKOV, V.S.

Principles of the delineation and correlation of ancient volcanic formations as revealed by a study in the northwestern part of the Siberian Platform. Dokl. AN SSSR 162 no.6:1378-1381 Je '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut geologii Arktiki. Submitted March 19, 1965.

ANISHCHENKO, G.N.; GOLUBKOV, V.V.; NIKITENKO, K.I.; CHERNYAVSKIY, G.A.

Magnetotelluric sounding in central Turkmenia. Izv. AN
SSSR. Ser. geofiz. no.11:1651-1658 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
geofizicheskikh metodov razvedki.
(Turkmenistan—Electric prospecting)

GOLUBKOV, V.S.; DODIN, D.A.

New prospective section in the Noril'sk ore region. Uch.
zap. NIIGA. Reg. geol. no.4:98-115 '64. (MIRA 18:12)

ANISHCHENKO, G.N.; GOLUBKOV, V.V.

Use of long-period variations in a field of telluric currents to study
the geology of central Turkmenia. Razved. i prom. geofiz. no.46:45-43
'62. (MIRA 16:3)

(Turkmenistan—Electric prospecting)

ANISHCHENKO, G.N.; GOLUBEKOV, V.V.

Using the integral method for processing magnetotelluric
observations. Izv. AN Turk.SSR. Ser. fiz.-tekhn., khim. i geol.
nauk no.2:50-57 '63. (MIRA 17:8)

1. Nauchno-issledovatel'skaya sredneaziatskaya geofizicheskaya
ekspeditsiya.

ACCESSION NR: AP4033417

S/0202/64/000/001/0049/0052

AUTHORS: Anishchenko, G. N.; Golubkov, V. V.

TITLE: Analysis of the results of magnetotelluric profiling in central Turkmenia

SOURCE: AN TurkmenSSR. Izvestiya. Seriya fiziko-tehnicheskikh, khimicheskikh i geologicheskikh nauk, no. 1, 1964, 49-52

TOPIC TAGS: telluric current, magnetotelluric method, resistivity, longitudinal conductivity

ABSTRACT: This work is the result of surveys of the Central Asian Expedition of VNIIgeofiziki (VNII Of Geophysics) in 1960-61 to study the deep structure of Turkmenia. The profile was 400 km long, from Ashkhabad to Tashauz. In most of central Turkmenia the medium-period fluctuations (16-60 seconds) are not involved in the integral of longitudinal conductivity. For studying relief on a marker horizon, the use of magnetotelluric profiling of long-period fluctuations has proved suitable. The general indications of structure are good, but anomalies may not correspond directly to specific structures. The conductivity was found to increase steadily northward along the northern half of the profile (corresponding

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ACCESSION NR: AP4033417

to a decrease in resistivity), but the marker horizon is at a constant depth in this region. The causes of anomalies in longitudinal conductivity are two: changes in thickness of the marker bed and actual changes in its resistivity. This means that changes in total longitudinal conductivity along the northern half of the profile must be due exclusively to changes in resistivity of the bed. Along the southern half of the profile, changes are actually due to differences in depth to the horizon. In practice it is impossible to distinguish in a record which of these causes is responsible for the anomaly observed, and it is therefore necessary to know the resistivity along the profile. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: Sredneaziatskaya geofizicheskaya ekspeditsiya "Spetsgeofiziki"
(Central Asian Geophysical Expedition "Spetsgeofiziki")

SUBMITTED: 18Jan63

DATE ACQ: 28Apr64

ENCL: 00

SUB CODE: ES

NO REF SOV: 002

OTHER: 000

Card 2/2

GOLUBKOV, Vladimir Vladimirovich.

Experience in live stock transportation by railroad Moskva, Gos. transp. zhel-dor.
izd-vo, 1954. 33 p. (55-59854)

HE2321.L7G63

GOLUBKOV, V.V.

3613. GOLUBKOV, V.V. Pyeryevozki Ryby I Rybnykh Produktov Po Zhyelye-Znym Dorogam. M., Transzheldorizdat, 1954. 108 s.s. ill. 20sm 4,000ekz.
lr. 85k. (54-57367) P 656.225.445.72 + 664.95.0043

SO: Knizhnaya Letopis', Vol. 3, 1955

GOLUBKOV, V.

GOLUBKOV, V., inzhener.

Effect of ventilation on cooled meat in transit. Khol.tekh.31
no.2:60-61 Ap-Je '54.
(Meat, Frozen) (Refrigerator cars)

GOLUBKOV, V.

GOLUBKOV, V., inzhener; L'VITSYN, N., inzhener.

Trains with cooling systems and electric heating. Khol.tekh. 31
no.3:5-10 Jl-S '54.

(MLRA 7:9)

(Railroads--Cars--Heating and ventilation) (Refrigerator-cars)

GOLUBKOV, V.V., inshener.

Urgent tasks of improving the load-carrying capacity of railroad
cars. Zhel.dor.transp. 37 no.10:28-31 O '55. (MIRA 9:1)

(Railroads--Cars)

GOLUBKOV, Vladimir Vladimirovich; L'VITSYN, Nikolay Fedorovich; SHISHLYKOV,
Ye.S., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Manual for workers in refrigerated transportation] Rukovodstvo
rabochnikam khladotransporta. Moskva, Gos. transp. zhel-dor. izd-vo,
1956. 455 p.
(Refrigerator cars)

GOLUBKOV, V.V.; GROMOV, A.K., inzh.; KONDAKOV, N.P., inzh. (Novosibirsk).

Preventing losses of coal during railroad transport. Zhel. dor.
transp. 40 no. 2:61-63 F '58. (MIRA 11:3)
(Railroads--Freight) (Coal--Transportation)

GOLUBKOV, V.

Complex mechanization of loading on Soviet railroads. Vasut
14 no.6:4-5 Je '64.

1. Head, Loading Division, Ministry of Transportation of the USSR.

GOLUBKOV, Vladimir Vladimirovich; KULAGIN, Viktor Markelovich;
NESTERENKO, Mitrofan Akimovich; RIDEL', E.I., red.; KHITROV,
P.A., tekhn.red.

[Loading and unloading at railroad stations] Pogruzochno-
razgruzochnye raboty na zhelezodorozhnykh stantsiiakh.
Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 291 p. (MIRA 12:8)
(Railroads--Freight) (Loading and unloading)

MALAKHOV, K.N.; GOLUBKOV, V.V.

Effectiveness of the performance of loading and unloading operations by railroad equipment. Zhel.dor.transp. 41 no.12:12-15 D '59. (MIRA 13:4)

1. Glavnyy inshener Glavnogo gruzovogo upravleniya (for Malakhov). 2. Nachalnik otdela Glavnogo gruzovogo upravleniya (for Golubkov).
(Railroads--Freight) (Loading and unloading)

GOLUBKOV, Vladimir Vladimirovich; KOGAN, L.A., kand.tekhn.nauk,
retsensent; UGODIN, Ye.G., inzh., red.; VENINA, G.P.,
tekhn.red.

[Over-all mechanization of leading and unloading operations
at freight stations] Kompleksnaia mekhanizatsiia pogruzochno-
razgruzochnykh rabot na gruzovykh stantsiakh. Moskva,
Vses.izdatel'sko-poligr.eb"edinenie M-va putei soobshcheniya,
1961. 61 p.

(MIRA 14:12)

(Railroads--Freight)

(Leading and unloading--Equipment and supplies)

RAPPOROT, Mikhail Aronovich; SHTEYNFER, Gennadiy Moiseyevich;
GOLUBKOV, V.V., retsenzent; YEROFEYEV, Ye.V., inzh. red.;
VOROTNIKOVA, L.F., tekhn. red.

[Using station facilities in loading and unloading operations;
experience of the Sverdlovsk Railroad] Organizatsiia pogru-
zochno-razgruzochnykh rabot sredstvami stantsii; opyt Sverd-
lovskoi dorogi. Moskva, Vses. izdatel'sko-poligr. ob"edinenie
M-va putei soobshcheniya, 1962. 33 p. (MIRA 15:3)
(Railroads--Freight) (Loading and unloading)

ANTONEVICH, Eduard Feliksovich; GOLUBKOV, V.V., red.; SHISHLYKOV,
Ye.S., red.

[Handbook for the mechanic and team leader of loading hands]
Sправочник техника и бригадира грузчиков. Москва, Изд-во
"Транспорт," 1964. 286 p.
(MIRA 17:5)

GOLUBKOV, V.V.

Tasks of the mechanized divisions of loading and unloading operations.
Zhel. dor. transp. 47 no.9:32-36 S '65. (MIRA 18:9)

1. Nachal'nik otdela pogruzochno-razgruzochnykh rabot Glavnogo gruzovogo
upravleniya Ministerstva putey soobshcheniya.

BELETSKY, V. V.; GOLUBKOV, V. V.; YEGOROV, V. A.; YERSHOV, V. G. (Moscow)

"Investigation of flight trajectories with low thrust"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 1964.

17th Congress of International Astronautical Federation (IAF), Madrid, Spain
9-15 October 1966

A provisional program for above meeting schedules the following paper for Thursday, October 13, for the session, Astrodynamics II (Motion Around the Center of Gravity):

"Methods of Determination of Artificial Satellite Orientation",
V. V. BELETSKIY, V. V. GOLUBKOV, E. V. LAVROVSKIY, S. T. TRUSHIN,
and I. G. KHATSKEVICH, Commission for Exploration and Use of Outer Space, USSR.

SOURCE: Provisional Program, published Aug 66 or earlier, by Program Committee
of IAF Bureau, UNCLASSIFIED

ees

There is much to be learned from the Smolenak furniture makers.
Prom. koop. 14 no.5;14-15 My '60. (MIRA 13:12)
1. Starshiy inzhener upravleniya mebel'noy, lesozagotovitel'noy i
derevoobrabatyvayushchey promyshlennosti Respromsoveta.
(Smolensk--Furniture industry)

ANDRONOVÀ, N., inzh.; GOLUBKOV, Ye., inzh.

Using a new glue in woodworking. Prom.koop. no.10:25 0 '57.

(MIRA 10:12)

1.Upravleniye mebel'noy promyshlennost'yu Rospromsoveta.
(Glue)

GOLUBKOV, Yu.A.; KOROLEV, L.N.; LEBEDEV, A.V.

[Concerning the choice of a programming system for a computing and logic machine with a floating point] O vybore sistemy komand dlja trekhadresnoi vychislitel'noi i logicheskoi mashiny s plavajuščeim zapiatoi. Moskva, In-t tochnoi mekhaniki i vychislitel'noi tekhniki Akad. nauk SSSR, 1961. 40 p. (MIRA 14:8)
(Programming(Electronic computers))

GOLUBKOV, Yu.A.; LEBEDEV, A.V.

[Some methods for increasing the operating speed of electronic digital computers in the calculation of elementary functions]
Nekotorye puti povysheniia skorosti vychisleniia elementarnykh funktsii na tsifrovym elektronnym vychislitel'nykh mashinakh. Moskva, ITM i VT AN SSSR, 1962. 62 p. (MIRA 15:8)
(Electronic digital computers) (Functions)

S/064/62/000/005/001/002
B144/B138

AUTHORS: Zel'venskiy, Ya. D., Shalygin, V. A., Golubkov, Yu. V.
TITLE: Removal of phosphorus trichloride impurities from silicon chloride
PERIODICAL: Khimicheskaya promyshlennost', no. 5, 1962, 41-46

TEXT: SiCl_4 was purified of PCl_3 by (I) rectification; (II) adsorption. This is the first time that the liquid-vapor equilibrium has been determined with PCl_3 concentrations from 0.001 to 0.205 % by weight at 300-760 mm Hg. To avoid analytical difficulties due to the low PCl_3 concentrations, P^{32} was used. The temperature dependence of the separation coefficient α is not important and can be expressed by $\log \alpha = 79.245/T - 0.015$. Rectification in vacuo has no special advantage over that under atmospheric pressure. α is not influenced by additions of 0.0125-0.324 % by weight of $(\text{C}_6\text{H}_5)_3\text{CCl}$, which is used to purify SiCl_4 from BCl_3 . Since the solution in question obeys Henry's law, the number of theoretical plates in

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3/064/62/000/005/001/002

B144/B158

Removal of phosphorus...

the rectification column can be calculated on the basis of the value obtained for α : with a reflux ratio of 2, 90 plates are needed to reduce the PCl_3 content by a factor of 10^5 . (II) After drying with N_2 at 270°C , active aluminum oxide (1), 5AY (BAU) activated birch char coal (2), ACM (ASM) silicagel (3), activated carbon CKT (SKT) (4), and synthetic zeolite 4A (4A) (5) are used as adsorbents to purify SiCl_4 containing 0.001-0.48% by weight PCl_3 at 20°C . The data obtained with PCl_3 adsorption on 3 and 1 obey Langmuir's isotherm equation $A = A_m BC / (1 + BC)$, where A is the weight of material adsorbed per unit weight of adsorbent, C the equilibrium concentration, and A_m and B are constants. With concentrations below 0.02% by weight, A , for all the adsorbents tested, is a linear function of concentration: $A = KC$ (Fig. 4); the constant K ranges from 13.33 for 1 to 0.31 for 5. In every respect, 1 was the most efficient adsorbent. More than 120 lit. SiCl_4 can be purified by 1 kg of aluminum oxide in 1 cycle.

The saturation degree was found to exceed 90% with layers of 1000 mm and

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B144/B138

Removal of phosphorus...

above. The adsorption rate was independent of external diffusion, but apparently dependent on internal diffusion, since the saturation of the adsorbent increases with decreasing granulation. There are 7 figures and 4 tables.

Fig. 4. Isotherms of PCl_3 adsorption from SiCl_4 solution in the range of small PCl_3 concentrations.

Legend: 1,2,3,4,5 see text; (a) adsorption capacity, $A \cdot 10^2$, mmole/g;
(b) PCl_3 concentration, $C \cdot 10^2$, % by weight

✓

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3

ZEL'VENSKIY, Ya.D.; SHALYGIN, V.A.; GOLUBKOV, Yu.V.

Removal of phosphorus trichloride impurities from silicon
chloride. Khim.prom. no.5:347-352 My '62. (MIRA 15:7)
(Silicon chlorides) (Phosphorus chlorides)

GOLUBEKOVA, A.D.

Development of the cycles of stratification for hawthorns
and cotoneasters. Nauch. trudy AKKH no.24:157-164 '64
(MIRA 18:2)

POPLAVSKIY, K.M.; GOLUBKOVA, A.S.

Role of temperature and light conditions in the annual developmental cycle of apple trees. Fiziol. rast. 8 no.4:434-440 '61.

(MIRA 14:11)

1. Department of Plant Physiology, Michurin Institute of Fruit and Vegetable Growing, Michurinsk.

(Apple)

(Plants, Effect of temperature on)

(Plants, Effect of light on)

SHAKHOV, A.A.; GOLUBKOVA, B.M.

Electron microscope study of plant chloroplasts under conditions
of reduced temperatures of the root system. Dokl. AN SSSR 135
no.2:486-488 N '60. (MIRA 13:11)

1. Institut fisiologii rasteniy im.K.A.Timiryazeva AN SSSR.
Predstavлено академиком A.L.Kursanovym.
(Chromatophores) (Soil temperature)

SHAKHOV, A.A.; GOLUBKOVA, B.M.; KISLYAKOVA, T.Ye.

Submicroscopic structure and function of chloroplasts in potatoes
under different environmental conditions. Dokl. AN SSSR 141 no.5:
1246-1249 D '61.
(MIRA 14:12)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR.
Predstavлено академиком А.Л. Курсановым.
(Chromatophores)
(Photoperiodism)
(Plants, Effect of temperature on)

SHAKHOV, A.A.; GOLUBKOVA, B.M.

Effect of ultraviolet irradiation on the structure of chloroplasts.
Fiziol. rast. 10 no.3:300-306 My-Je '63. (MIRA 16:6)

1. K.A.Timiriazev Institute of Plant Physiology, U.S.S.R.
Academy of Sciences, Moscow.
(Plants, Effect of ultraviolet rays on) (Chromatophores)

SHAKHOV, A.A.; NARINYAN, S.G.; GOLUBKOVA, B.M.

Change in the structure of chloroplasts under the influence
of the temperature and radiation balance on Mount Agarats.
Dokl. AN Arm. SSR 37 no.1:33-38 '63. (MIRA 16:11)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR i
Botanicheskiy institut AN Armyanskoy SSR. Predstavleno akademikom
AN Armyanskoy SSR V.O.Gulkanyanom.

SHAKHOV, A.A.; GOLUBKOVA, B.M.

Structure of chloroplasts in the ontogeny of plants. Bot.
zhur. 49 no.4:503-510 Ap'64. (MIRA 17:5)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva
AN SSSR, Moskva.

L 14296-66 EWT(1)/FS(v)-3 SCTB DD/RD

ACC NR: AT6003882

SOURCE CODE: UR/2865/65/004/000/0474/0486

AUTHOR: Shakhov, A. A.; Shishchenko, S.V.; Stanko, S. A.; Shaydurov, V. S.; ⁹⁰
Golubkova, B. M. ²⁴¹

ORG: none

TITLE: Ultraviolet ^{2, 41} irradiation of plants as a problem of space phytophysiology

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 474-486

TOPIC TAGS: plant physiology, UV irradiation, photosynthesis, space biologic experiment, plant growth, radiation plant effect

ABSTRACT: The purpose of this review article, which includes results of many experiments, is to explore some aspects of the influence of ultraviolet radiation on photosynthesis, and to emphasize this area of investigation in space biology. In the first group of experiments described, plants grown under conditions of normal polar illumination were irradiated additionally with ultraviolet and infrared light, in most cases simultaneously. Ultraviolet irradiance ranged from 10—30 $\mu\text{w}/\text{cm}^2$. Electron microscopy of

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ACC NR: AT6003882

chloroplasts separated from these plants showed that shortwave UV-irradiation changes the submicroscopic structure of chloroplasts. But, owing to the photoreactivation capacity of plants, some recovery from injuries occurs. Thus chloroplasts of some plants are fairly resistant to artificial UV-irradiation during the polar day.

A second series of experiments was conducted at an altitude of 3200 m, where the level of natural ultraviolet radiation is higher than at sea level. When radishes were subjected to additional artificial UV-irradiation daily for 10 minutes (irradiance of 1700 erg/cm²), changes in chloroplast structure and pigment content were observed. Changes in the pigment content, determined by paper chromatography and spectrophotometry, depend on the ultraviolet wavelength, the duration of irradiation, stage of development of the plant, etc.

More study of the complex effects of UV-irradiation on plants is urgently needed. Preliminary studies by the authors showed that in chloroplasts of cabbage, beet, bean, turnip, and pea leaves, pigment content increased during short-term UV-irradiation, and decreased when the

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ACC NR: AT6003882

exposure was longer. Studies conducted at high altitude laboratories have established that when natural ultraviolet irradiance is high, absorption by leaves of radiant energy from ultraviolet and infrared rays increases. These data indicate that plants growing in extreme conditions (such as space-flight) use radiant energy in a wider spectral band for their vital activity. It has been observed that photosynthesis in wild alpine plants proceeds at normal levels or higher. This is one of the reasons to suspect that with sufficiently intense, around-the-clock illumination, plants in spaceflight conditions may not require protection from the entire ultraviolet spectrum.

Further research must be conducted on the use of parts of the ultraviolet spectrum to increase the resistance of plants to other cosmic radiation factors. Orig. art. has: 7 tables. [ATD PRESS: 4091-F]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 018 / OTH REF: 004

PC

Card 3/3

STEPANOV, V.M., kand. med. nauk; GOLUBKOVA, F.S., mladshiy nauchnyy sotrudnik

Lesions caused by X-rays. Vest. khir. 92 no.2:132-133 F '64.
(MIRA 17:9)

1. Iz filiala Novosibirskogo NIITO v gorode Prokop'yevske (dir.-K.G. Nirenburg) i kafedry rentgeno-radiologii (zav... prof. D.Ya. Bogatin) Novokuznetskogo gosudarstvennogo instituta dlya usover-shenstvovaniya vrachey (rektor - dotsent G.L. Starkov). Adres avtorov: Prokop'yevsk, Kemerovskoy oblasti, Vokzal'naya ul., 65, rentgenologicheskoye otdeleniye NIITO.

GOLUBKOVA, G. [Halubkova, H.], brigadir zakroyechnogo tsekha

It is good if it is made in the U.S.S.R. Rab.i sial. 37 no.9:
10-11 S '61. (MIRA 14:10)

1. Fabrika "Chyrvony Kastrychnik", g. Vitebsk.
(Vitebsk--Shoe industry)

VITING, L.M.; KHOMYAKOV, K.G.; GOLUBKOVA, G.P.

Reaction of ferrites with fused salts and metallic oxides. Vest.Mosk.
un.Ser.2:Khim. 19 no.4:51-53 Jl-Ag '64.

(MIRA 18:8)

1. Kafedra obshchey khimii Moskovskogo universiteta.

1 7031-66 EME(m)/EMT(r)/EMP(x)/EWP(b)/EWA(c) IJP(c) JD/MM

ACC NR: AP5027908

SOURCE CODE: UR/0189/65/000/005/0055/005

AUTHOR: Viting, L. M.; Golubkova, G. P.

ORG: Department of General Chemistry, Moscow State University, (Kafedra obshchey khimii Moskovskogo gosudarstvennogo universiteta)

TITLE: Interaction of ferrites with lead phosphate melts

SOURCE: Moscow, Universitet. Vestnik. Seriya II. Khimiya, no. 5, 1965, 55-57

TOPIC TAGS: ferrite, lead compound, nickel compound, iron compound, phosphate

ABSTRACT: The quasi-binary systems $Pb_3(PO_4)_2$ - $NiFe_2O_4$ and $Pb_2P_2O_7$ - $NiFe_2O_4$ are studied by thermal analysis (with recording of heating curves by means of a Kurnakov pyrometer), the visual-polythermal method, microstructural and chemical analyses, and determination of the Curie points of the ferrite crystals obtained. The phase diagram of $Pb_3(PO_4)_2$ - $NiFe_2O_4$ (Fig. 1), obtained from thermal analysis data, shows that nickel ferrite

Card 1/3

UDC: 538.245;548.55:546.185.817

L-7931-66

ACC NR: AP5027908

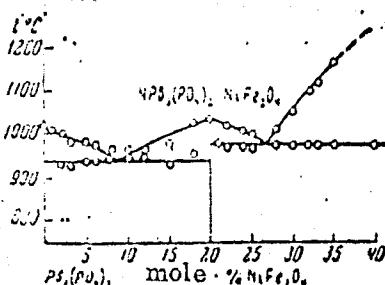


Fig. 1 Phase diagram of quasi-binary system
 $\text{Pb}_3(\text{PO}_4)_2 - \text{NiFe}_2\text{O}_4$

and lead orthophosphate form a chemical compound $4\text{Pb}_3(\text{PO}_4)_2 \cdot \text{NiFe}_2\text{O}_4$ which melts congruently at 1035°C and forms eutectics with lead orthophosphate (940C and 8.5 mole % ferrite) and nickel ferrite (975C and 27 mole % ferrite). The phase diagram of $\text{Pb}_2\text{P}_2\text{O}_7 - \text{NiFe}_2\text{O}_4$

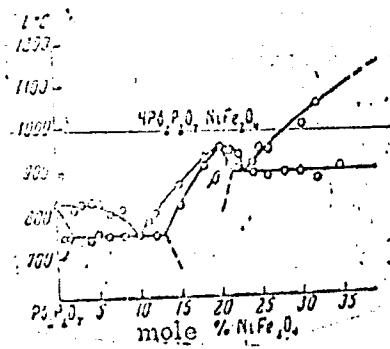


Fig. 2 Phase diagram of quasi-binary system
 $\text{Pb}_2\text{P}_2\text{O}_7 - \text{NiFe}_2\text{O}_4$

Card 2/3

L 7931-66

ACC NR: AP5027908

Thus, lead phosphates can be used as new solvents for growing ferrite single crystals within concentration and temperature intervals readily determinable from phase diagrams of the corresponding systems. Orig. art. has: 4 figures.

SUB CODE: SS, MM / SUBM DATE: 26Dec64 / ORIG REF: 005

PC

Card 3/3

L 30228-66 EWP(k)/EWT(d)/EWT(m)/T/EWP(l)/EWP(t)/ETI IJP(c) WW/JD/JG
ACC NRI AP6013826 (A)

SOURCE CODE: UR/0189/65/000/006/0069/0070

47
46
B

AUTHOR: Viting, L. M.; Golubkova, G. P.

ORG: Chair of General Chemistry, Moscow State University (Kafedra obshchey khimii, Moskovskiy gosudarstvennyy universitet)

TITLE: Interaction of ferrites with molten bismuth trioxide

SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 6, 1965, 69-70

TOPIC TAGS: ferrite, bismuth compound, nickel compound, iron compound, cobalt compound, thermal analysis

ABSTRACT: In order to determine whether molten Bi_2O_3 can be used as a solvent for preparing ferrite single crystals, the quasi-binary systems $\text{Bi}_2\text{O}_3\text{-CoFe}_2\text{O}_4$ and $\text{Bi}_2\text{O}_3\text{-NiFe}_2\text{O}_4$ were investigated by thermal analysis (heating and cooling curves), the visual polythermal method, and microstructural and chemical analyses. A phase diagram of the $\text{Bi}_2\text{O}_3\text{-CoFe}_2\text{O}_4$ system was plotted on the basis of the thermal analysis. Ferrite crystals were found in the hypereutectic region. Chemical analysis of hypereutectic alloys, performed after dissolving Bi_2O_3 in hot HNO_3 , showed that the composition of the crystals of the second phase, insoluble under these conditions, corresponds to the formula CoFe_2O_4 . Both the microstructural and chemical analysis confirmed the phase diagram obtained. The $\text{Bi}_2\text{O}_3\text{-NiFe}_2\text{O}_4$ system was found to have a eutectic at 795°C and

Card 1/2

UDC: 536.7

L 30228-66

ACC NR: AP6013826

9 mol % NiFe₂O₄. The data obtained indicate that Bi₂O₃ can be proposed as a new solvent for growing ferrite single crystals. Orig. art. has: 2 figures.

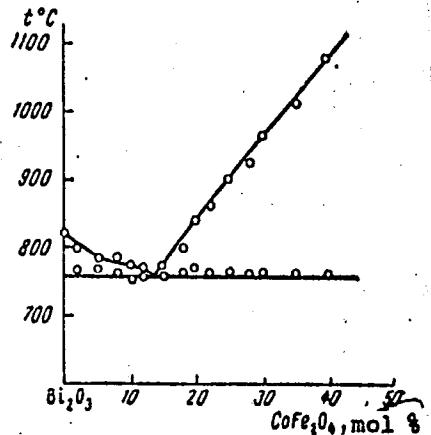


Fig. 1. Phase diagram of the quasi-binary system Bi₂O₃-CoFe₂O₄.

SUB CODE: 20,07 / SUBM DATE: 17Apr65 / ORIG REF: 003

Card 2/2 (C)

VITING, L.M.; GOLUBKOVA, G.P.

Interaction of ferrites with fused sodium meta and pyrovanadates. Vest. Mosk. un. Ser. 2:Khim. 20 no.4:50-53 Jl-Ag '65.
(MIRA 18:10)

1. Kafedra obshchey khimii Moskovskogo gosudarstvennogo universiteta.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4

VITING, I.M.; GOLUBKOVA, G.P.

Interaction between ferrites and molten bismuth trioxide.
Vest. Mosk. un. Ser. 2: Khim. 20 no.6:69-70 N-D '65.

(MIRA 19:1)

1. Kafedra obshchey khimii Moskovskogo universiteta. Submitted
April 17, 1965.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4"

9 (6)

AUTHOR:

Golubkova, I.

SOV/20-59-5-21/23

TITLE:

Magnetic Lens Directed Toward the Atom (Magnitnaya linza natselena na atom)

PERIODICAL:

Tekhnika molodezhi, 1959, Nr 5, p 36 (USSR)

ABSTRACT:

In this article the author reports on the new electron microscope "UEM-100". Even under the sharpest microscope it is not possible to examine extremely small particles, for instance, bacteria or molecules. These particles are considerably smaller than the wavelength of light which easily penetrates them. In order to obtain shorter waves, electrons are employed. These very fast particles exhibit the properties of waves and particles at the same time. The wavelength of a flying particle is shorter by several hundred times than that of an atom, which means that in principle an atom can be perceived by using an electron flux. This electron microscope could be built due to the fact that electron rays, like light rays, can be concentrated on one point by means of special lenses, which, however are not made of glass but of electric and magnetic fields. Scientists and engineers are successfully working at an electron microscope that reveals ✓

Card 1/2

Magnetic Lenses Directed Toward the Atom

SOV/20-59-5-21/83

molecules. In the last years it was possible to perceive particles 10-15 Ångström large. "UEMB-100" is also an electron microscope of this type and has won universal acclaim among specialists at Brussels World Exposition. The scheme of the path of rays in "UEMB-100" is based on the principle underlying previous types. But it features a number of interesting improvements. The condenser system contains two converging lenses instead of one. It has a light-corrected objective lens which ensures sharp images. Two projecting lenses permit a magnification by 150000 without any difficulties. This electron microscope is employed almost in any field of science. It is now possible to examine the structure of molecules and even the crystal lattice of several substances, and in the near future even the atom will be disclosed. There are 2 figures.

✓

Card 2/2

2

CP

GOLUBKOVA, K.M.

157 AND 158: INVESTIGATION OF THE PROPERTIES AND...

Investigation of the equilibrium and the surface properties in the systems: phenol-formic acid-water and phenol-acetic acid-water. K. M. Golubkova, N. N. Petin and E. V. Topchilova. *J. Phys. Chem. (U. S. S. R.)* 15, 105-204 (1941).—Data on the composition of the phases, and on the crit. const., and surface tensions of the boundary layers as a function of concn. for the two ternary systems are given. In the system I. phenol-HOAc-H₂O, the values of σ for the liquid-liquid boundaries increase anomalously up to the point of complete miscibility. The value of σ for the liquid-air boundary remains const. As the phases approach complete miscibility, their compositions do not tend to equalize, but the lower phenol phase disappears by sink. in the upper phase. The liquid-liquid surface tension curves are similar to those for σ for similar layers. Investigation of the equilibrium and the surface properties in the system phenol-sodium acetate-water. N. N. Petin and E. V. Topchilova. *Ibid.* 157-14.—Exptl. data for the relative concns., distribution coeffs., the elec. conductivities and the surface tensions on the liquid-air and the interliquid phase surfaces, for various systems containing, up to 2.5% (0.66% dissolved) Na acetate and 30.7% phenol (P) are given. The surface tension on the boundary with air is a const., that for the interliquid phase surfaces increases anomalously up to the point of miscibility. The concn. of the layers P and upper H₂O phases does not tend to equalize prior to the disappearance of the latter at the crit. eutectic point. The distribution coeff. of Na acetate between the P and eq. phases begins below unity and increases to above unity for larger concns. of P. H. Rathmann

158-3A: METALLURGICAL ALUMINUM CONCENTRATING

IRON RECOVERY

SECOND WIP ONCE REC

WELLING

IRON REMOVAL

SECOND ONE ONCE REC

158-3B: METALLURGICAL ALUMINUM CONCENTRATING

IRON RECOVERY

SECOND WIP ONCE REC

WELLING

IRON REMOVAL

SECOND ONE ONCE REC

SECOND WIP ONCE REC	WELLING	IRON REMOVAL	SECOND ONE ONCE REC
158-3A	158-3B	158-3A	158-3B

BOLTZMANN, Ludwig, 1844-1906; GRIGOROVA, V.A., redaktor; GOLUBKOVA, L.A.,
redaktor.

[Lectures on the theory of gases] Lektsii po teorii gazov. Perevod
s nemetskogo B.I.Davydova. Moskva, Gos. izd-vo tekhniko-teoret.
lit-ry, 1953. 554 p. (Klassiki estestvoznaniiia: matematika, mekha-
nika, fizika, astronomiia) (MLRA 7:3)
(Boltzmann, Ludwig, 1844-1906) (Gases)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4

GOLUBKOVA, N.S.

Species of the genus Usnea in Moscow Province. Bot.mat.Otd.
spor.rast. 12:4-11 Ja '59. (MIRA 12:12)
(Moscow Province--Lichens)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4"

GOLUBKOVA, N.S.

Lichen species hitherto unknown in Moscow Province. Bot. zhur.
45 no.10:1537-1538 O '60.
(MIRA 13:11)

1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR,
Leningrad.
(Moscow Province--Lichens)

VASIL'YEV, Mikhail Vasil'yevich; GOLUBKOVA, V.A., red.; PLAKSIN, I.N.,
nauchnyy red.; KARASIK, N.P., tekhn. red.

[Metals and man] Metally i chelovek. Moskva, Izd-vo "Sovetskaia
Rossiia," 1962. 415 p. (MIRA 15:7)

1. Chlen-korrespondent Akademii nauk SSSR (for Plaksin).
(Metals)

FILIMONOV, Nikolay Aleksandrovich, Geroy Sotsialisticheskogo Truda;
GOLUBKOVA, V.A., red.; AVDEYEVA, V.A., tekhn. red.

[Encounters on the way; reminiscences] Vstrechi v puti;
vospominaniia. Moskva, Sovetskaia Rossiia, 1963. 196 p.
(MIRA 16:8)

(Electric power plants)

KIRYUKHIN, A.M.; GOLUBKOVA, V.A., redaktor; MAYBORODA, M.I., tekhnicheskiy
redaktor [redacted]

[Soviet tractors] Sovetskie traktory. Moskva, Gos. izd-vo kul'turno-
prosvetitel'noi lit-ry, 1954. 18 p. (MIRA 8:6)
(Tractors)

BILENKO, Dmitriy Aleksandrovich; ALEKSEYENKO, V.I., kand.tekhn.nauk,
nauchnyy red.; GOLUBKOVA, V.A., red.; MEDVEDEVA. R.A., tekhn.red.

[Artificial leather] Iskusstvennaya kozh. Moskva, Izd-vo
"Sovetskaya Rossiia," 1959. 8 p.
(MIRA 13:7)
(Leather, Artificial)

GOLUBKOVA, V.A.

PHASE I BOOK EXPLOITATION

334

Barabashov, Nikolay Pavlovich, Active Member Ukrainian S.S.R.
Academy of Sciences.

O proiskhozhdenii zemli i drugikh nebesnykh tel; kratkiy ocherk
(Origin of the Earth and Other Celestial Bodies; a Brief
Study) Moscow, Goskul'tprosvetizdat, 1955. 105 p. 30,000
copies printed.

Ed.: Golubkova, V.A.; Tech. Art Ed.: Pergamenshchik, Ye.N.

PURPOSE: The purpose of this book is to show the progress of the
field of cosmogony, beginning with ancient, naive legends
and ending with the formation of the materialist hypo-
thesis presented by Soviet scholars.

COVERAGE: See Table of Contents. There are no personalities and
no bibliographic references.

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Origin of the Earth and Other Celestial Bodies (Cont.)

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AVAILABLE: Library of Congress

JS/1sb
27 May 1958

Card 4/4

BRONSHTEIN, V.A; STANYUKOVICH, K.P., doktor tekhnicheskikh nauk, redaktor;
GOLUBKOVA, V.A., redaktor.

[The universe; a collection] Vselennaia; sbornik. Moskva, Gos.
izd-vo kul'turno-prosvetitel'noi lit-ry, 1955. 404 p. (MLRA 9:4)
(Cosmology)

ZIGEL', Feliks Yur'yevich; STANYUKOVICH, K.P., nauchnyy redaktor;
GOLUBKOVA, V.A., redaktor; YUSFINA, N.L., tekhnicheskij redaktor

[Can stones fall from the sky?] Mogut li s neba padat' kamni?
Moskva, Goskul'tprosvetizdat, 1956. 10 p. and 6 illus.1.
(Meteorites) (MLRA 10:2)

GOLUBKOVA, V.A.

BARABASHOV, Nikolay Pavlovich; GOLUBKOVA, V.A., redaktor; YUSFINA, N.L.,
tekhnicheskiy redaktor

Mars. [Moskva] Goskul'tprosvetizdat, 1956. 12 p. (MLRA 10:6)

1. Deystvitel'nyy chlen Akademii nauk USSR (for Barabashov)
(Mars (Planet))

PEREL'MAN, Faina Moiseyevna; ZVORYKIN, Aleksandr Yakovlevich; NIKOLAEV, N.S.,
doktor khimicheskikh nauk, nauchnyy redaktor; GOLUBKOVA, V.A.,
redaktor; YUSFIMA, N.L., tekhnicheskiy redaktor

[How chemistry originated and with what it is concerned] Kak
voznikla khimiia i chem ona zanimaetsia. Moskva, Goskul'tpro-
svetizdat, 1956. 14 p. and 5 l. (MIRA 10:2)
(Chemistry--History)

GOLUBKOVA, V. P.

GOL'DIN, Mark Iosifovich; MISHUSTIN, Ye.N., doktor biologicheskikh nauk,
nauchnyy redaktor; GOLUBKOVA, V.A., redaktor; YUSPINA, N.L., te-
khнический redaktor

[Microbes around us] Mikroby vokrug nas. Moskva, Gos. kul'tprosvet-
izdat, 1956. 15 p. (MIRA 10:4)

1. Chlen-korrespondent Akademii nauk SSSR (for Mishustin)
(Micro-organisms)

GOLUBKOVA, V. R.

VARVAROV, Nikolay Aleksandrovich; GOLUBKOVA, V.A., red.; KLEYEVA, G.I.,
tekhn.red.

[Artificial earth satellites] Iskusstvennye sputniki zemli [Moskva]
[n.d.] 15 p. 197
(Artificial satellites)

GOLUBKOVA N.A.

TROFIMOV, Boris Aleksandrovich; FLEROV, K.K., doktor biologicheskikh nauk,
professor, nauchnyy redaktor; GOLUBKOVA, N.A., redaktor; KHAR'KOV,
S.P., tekhnicheskiy redaktor; YUSFIHA, N.L., tekhnicheskiy redaktor

[Life in distant ages] Zhizn' v glubinakh vekov. Moskva, Gos. izd-vo
kul'turno-prosv. lit-ry, 1957. 148 p. (MIRA 10:8)
(Paleontology)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4

GOLUBKOVA, V.A.

KROTOV, Modest Alekseyevich; GOLUBKOVA, V.A., red.; ROZEN, E.A., tekhn.red.

[In the Far North] Na severo dal'nem. Moskva, Izd-vo "Sovetskaya
Rossiya," 1957. 213 p.
(Yakutia) (MIRA 11:5)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4

GOLUBKOVA, V.A.
KUROCHKIN, Pavel Aleksyevich; GOLUBKOVA, V.A., red.; YELAGIN, A.S.,
tekhn.red.

[Our glorious army] Nasha slavnaia armia. Moskva, Izd-vo Sovetskaya
Rossiya. 1958. 36 p. (MIRA 11:2)
(Russia--Army)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4"

VASIL'YEV, Mikhail Vasil'yevich; GUSHCHEV, Sergey Zakharovich; GOLUBKOVA,
V.A., red.; KLEYEVA, G.I., tekhn.red.

[Report from the 21st century] Reportazh iz XXI veka. Moskva,
Izd-vo Sovetskaya Rossiia, 1958. 243 p. (MIRA 12:4)
(Science) (Technology)

VASIL'YEV, Mikhail Vasil'yevich; DOBRONRAVOV, V.V., prof., doktor
fiziko-matemat.nauk, nauchnyy red.; GOLUBKOVA, V.A., red.;
ROZEN, M.A., tekhn.red.

[Space voyages] Puteshestviia v kosmos. Moskva, Izd-vo
"Sovetskaja Rossiia," 1958, 244 p. (MIRA 12:9)
(Interplanetary voyages)

GOLUBKOVA, V.A.

VASIL'YEV, Mikheil Vasil'yevich; BABAT, G.I., doktor tekhn. nauk, nauchnyy
red.; GOLUBKOVA, V.A., red.; ROZEN, M.A., tekhn. red.

[Energy and man] Energia i chelovek. Moskva, Izd-vo "Sovetskaya
Rossiya," 1958. 315 p.
(Technology)

VOLKOV, Aleksandr Ivanovich; SHTAN'KO, Nikolay Ivanovich; GOLUBKOVA,
V.A., red.; MARAKASOVA, L.P., tekhn. red.

[Branch of a Siberian cedar] Vety sibirskogo kedra. Mo-
skva, Sovetskaia Rossiia, 1962. 359 p. (MIRA 17:3)

VASIL'YEV, Mikhail Vasil'yevich; GUSHCHEV, Sargey Zakharovich;
GOLUBKOVA, V.A., red.; AVDEYEVA, V.A., tekhn. red.

[Reportage from the 21st century] Reportash is XXI veka.
2., dop. izd. Moskva, Sovetskaia Rossiia, 1963. 338 p.
(MIRA 16:9)

(Science) (Technology)

POPOVSKIY, Mark Aleksandrovich; GOLUBKOVA, V.A., red.; KLAFTSOVA,
T.F., tekhn. red.

[Swept cobweb] Razorvannaya pautina. Moskva, Izd-vo "So-
vetskaia Rossiia," 1963. 131 p. (MIRA 16:10)
(Skriabin, Konstantin Ivanovich, 1878-)

MEL'NIKOV, Nikolay Andreyevich; DOLUBKOVA, V.A., red.; ADEYEV,
V.A., tekhn. red.

[Captains of the stars] Zvezdnye kapitany. Moskva, So-
vetskaia Rossiia, 1963. 252 p. (MIRA 16:9)
(Nikolaev, Andrian Grigor'evich, 1929-)
(Popovich, Pavel Romanovich, 1930-)

RICH, Valentin; CHERENKO, Mikhail; GOLUBKOVA, V.A., red.

[Through the magic crystal; a tale about a thought]
Skvoz' magicheskii kristall; povest' o mysli. Moskva,
Sovetskaia Rossiia, 1964. 168 p. (MIRA 17:12)

GOLUBKOVA, V.A., red.

[Space vehicles and sphinxes; Meetings conducted by
Dmitrii Bilenkin, IAroslav Golovanov, Vladimir Gubarev,
Leonid Repin] Zvezdolety i sfinksy. Zasedaniia vedut:
Dmitrii Bilenkin, IAroslav Golovanov, Vladimir Gubarev,
Leonid Repin. Moskva, Sovetskaia Rossiia, 1964. 226 p.
(MIRA 17:11)
1. Klub Lyuboznatel'nykh.

VASIL'YEV, Mikhail Vasil'yevich; KARGIN, V.A., akademik, nauchn.
red.; GGLUBKOVA, V.A., red.

[Familiar strangers; chemical elements of the earth, water
and air] Znakomye neznakomtsy; elementy zemli, vody i voz-
dukha. Moskva, Sovetskaia Rossiia, 1964. 343 p.
(MIRA 17:7)

SMOL'YANINOVA, L.A.; GOLUBKOVA, V.P.

Method of processing herbarium material. Bot. zhur. 38 no.4:573-574 Jl-Ag
'53. (MLRA 6:9)

1. Botanicheskiy institut im. V.A.Komarova Akademii nauk SSSR, Leningrad.
(Plants--Collection and preservation)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4

SMOLIANINOVA, L.A. [Smol'yaninova, L.A.]; GOLUBKOVA, V.F.

On the processing technique of herbarium material. Analele
biol 9 no.2:153-154 Ap-Je '54.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4

SMOL'YANINOVA, L.A.; GOLUBKOVA, V.F.

Microtome slices of pollen grains. Izv. AN BSSR no.2:127-129
Mr-Ap '55.

(Pollen)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515920005-4"

GOLUBKOVA, V.F.

New species of the genus *Abelia* R.Br. Bot.mat.Gerb. 17:394-398
'55. (MLRA 9:5)
(*Abelia*)

BORISOVA, A.G.; BOCHANTSHEV, V.P.; VASIL'CHEVKO, I.T.; GOLUBKOVA, V.F.;
GORSHKOVA, S.G.; GRUBOV, V.I.; KIRPICHNIKOV, N.E.; SMOLYANINA, L.A.;
TAMAMSHYAN, S.G.; TSVELEV, N.N.; YUZEMCHUK, S.V.; KOMAROV, V.L.,
akademik, glavnnyy red.; SHISHKIN, B.K., red.izdaniya; BOBROV, Ye.O.,
doktor biol.nauk, prof., red.; SMIRNOV, A.V., tekhn.red.

[Flora of the U.S.S.R.] Flora SSSR. Moskva, Izd-vo Akad.nauk
SSSR. 1959. 630 p. (MIRA 12:8)

1. Chlen-korrespondent AN SSSR (for Shishkin).
(Compositae)